FEDERAL SUPPLY CLASS
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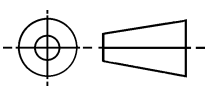
THIRD ANGLE PROJECTION



ISSUED 2001-07

PREPARED BY SAE SUBCOMMITTEE AE-8C2

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INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

TERMINAL JUNCTION SYSTEM, TERMINAL JUNCTION BLOCKS, SECTIONAL, MODULES, ELECTRONIC, FEEDBACK TYPE, SIZE 20-1, SERIES I

AS81714/25
SHEET 1 OF 10

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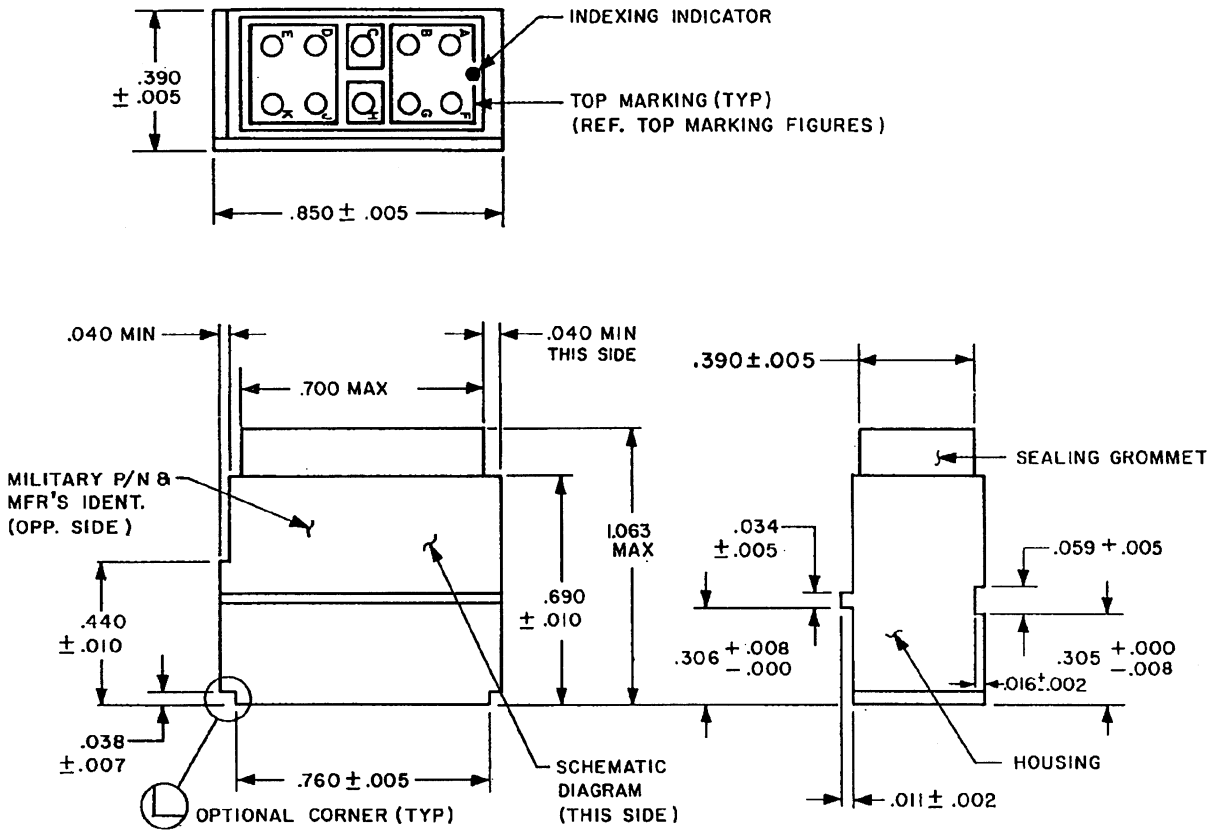


Size 20-1 electronic block.

TABLE I.

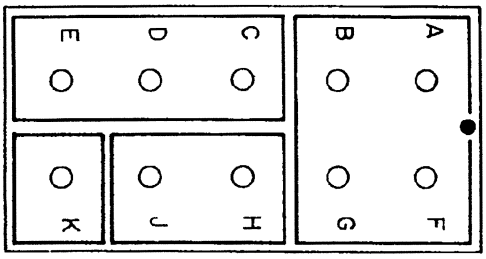
Part Number 1/ 2/	Consists of Block and	
	Contacts Part Number	End Seal Plugs Part Number
M81714/4-D-***	M39029/1-101	MS27488-20

*** Bussing Arrangement.
1/ See Note 7.
2/ See Note 8.

Inch	mm	Inch	mm	Inch	mm	Inch	mm
.002	0.05	.034	0.86	.305	7.75	.690	17.53
.005	0.13	.038	0.97	.306	7.77	.700	17.78
.007	0.18	.040	1.02	.370	9.40	.760	19.30
.010	0.25	.059	1.50	.390	9.91	.850	21.59
.011	0.28	.016	0.41	.440	11.18	1.063	27.00

TABLE I. RESISTOR VALUES.

Resistor	Value (Ohms)	MIL-R-39008 Part Number
R1	39	RCR07G390JM
R2	47	RCR07G470JM
R3	56	RCR07G560JM
R4	100	RCR07G101JM
R5	110	RCR07G111JM
R6	120	RCR07G121JM
R7	150	RCR07G151JM
R8	180	RCR07G181JM
R9	220	RCR07G221JM
R10	330	RCR07G331JM
R11	390	RCR07G391JM
R12	470	RCR07G471JM
R13	510	RCR07G511JM
R14	1,000	RCR07G102JM
R15	1,500	RCR07G152JM
R16	4,700	RCR07G472JM
R17	15,000	RCR07G153JM
R18	47,000	RCR07G473JM
R19	51,000	RCR07G513JM
R20	100,000	RCR07G104JM



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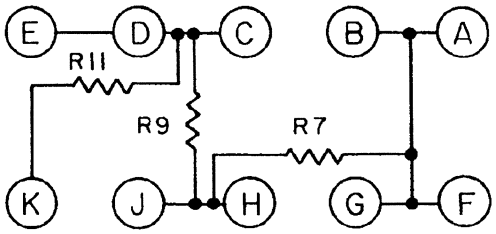
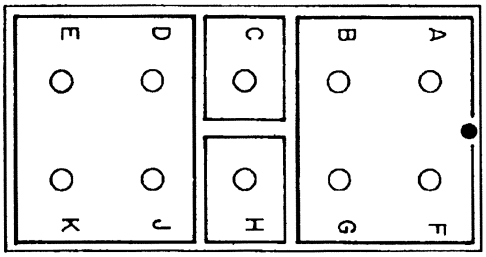


SCHEMATIC DIAGRAM

FIGURE 1 -001



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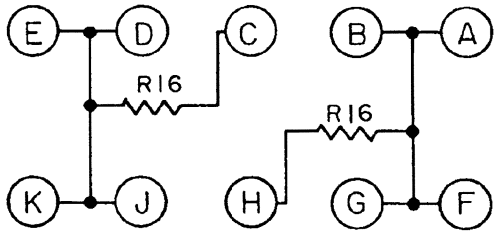
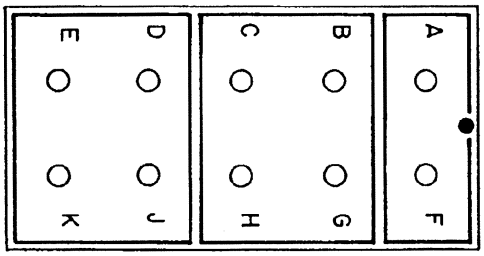


SCHEMATIC DIAGRAM

FIGURE 2 -002



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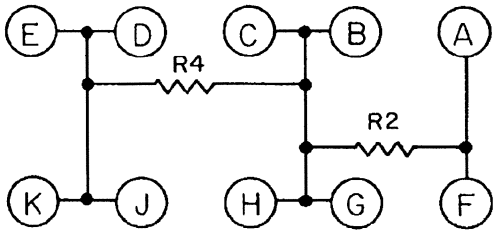
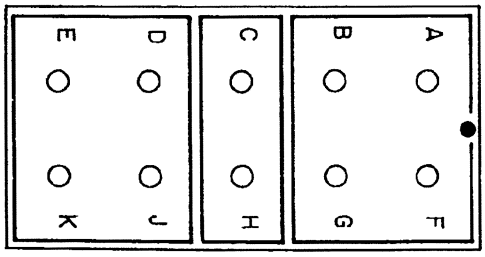


SCHEMATIC DIAGRAM

FIGURE 3 -003



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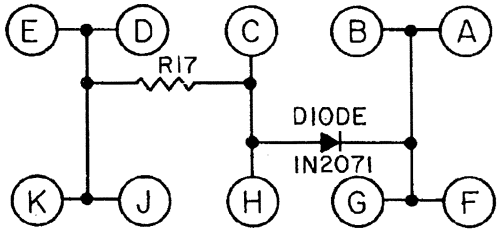
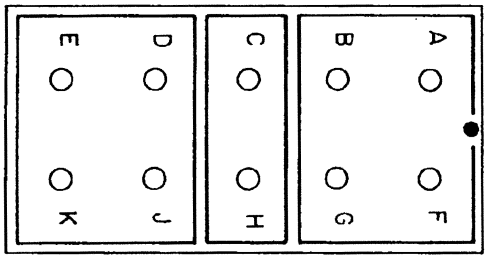


SCHEMATIC DIAGRAM

FIGURE 4 -004



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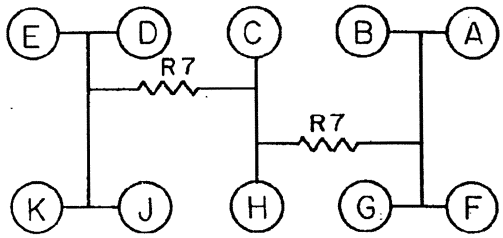
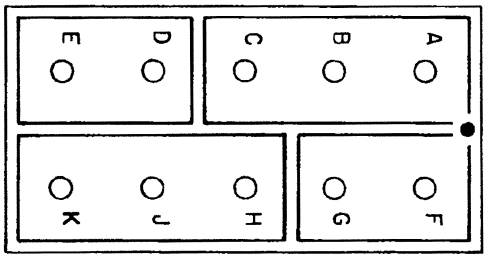


SCHEMATIC DIAGRAM

FIGURE 5 -005



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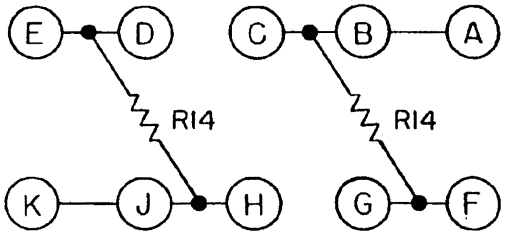
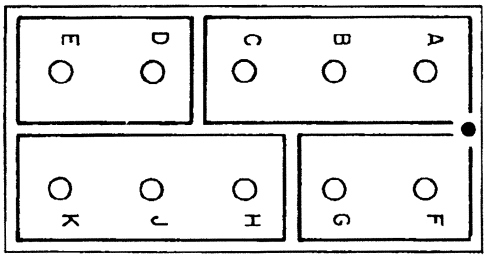


SCHEMATIC DIAGRAM

FIGURE 6 -006



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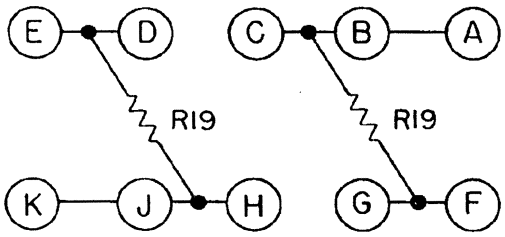
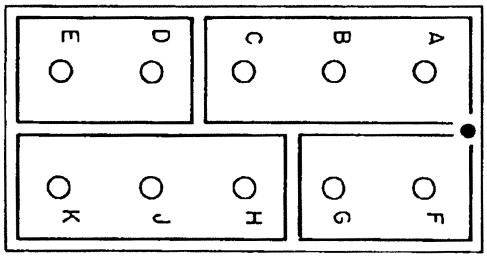


SCHEMATIC DIAGRAM

FIGURE 7 -007



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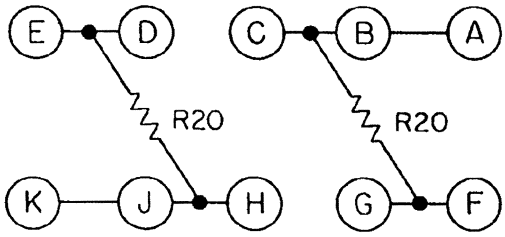
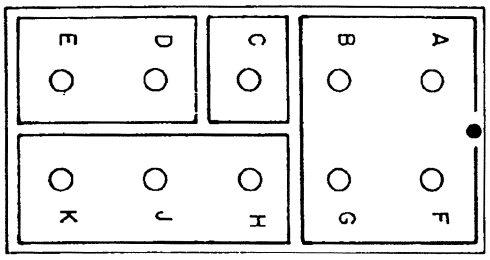


SCHEMATIC DIAGRAM

FIGURE 8 -008



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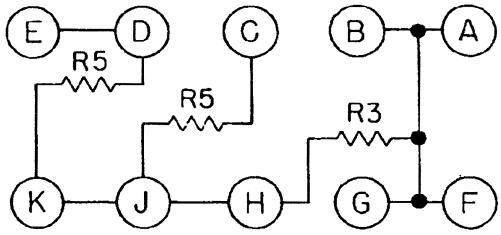
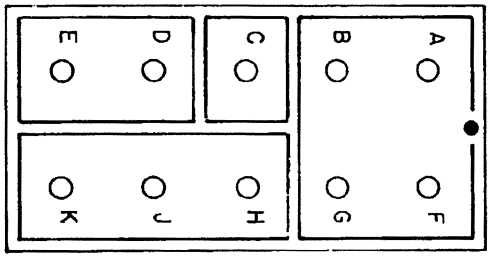


SCHEMATIC DIAGRAM

FIGURE 9 -009



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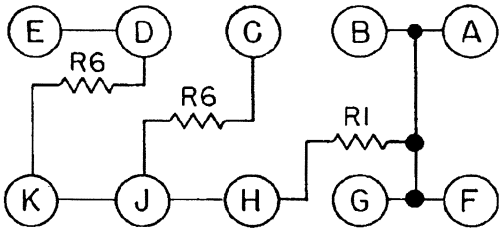
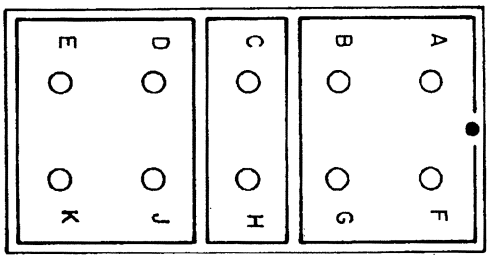


SCHEMATIC DIAGRAM

FIGURE 10 -010



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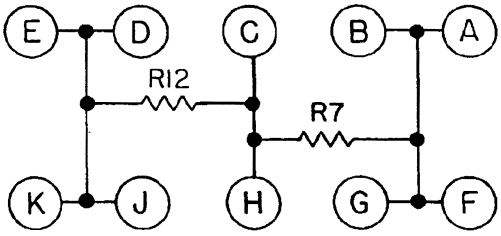
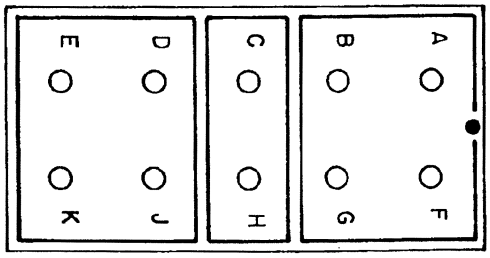


SCHEMATIC DIAGRAM

FIGURE 11 -011



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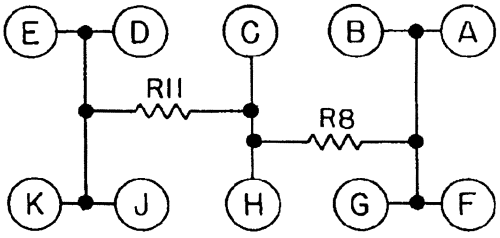
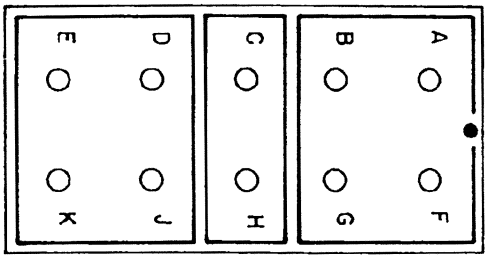


SCHEMATIC DIAGRAM

FIGURE 12 -012



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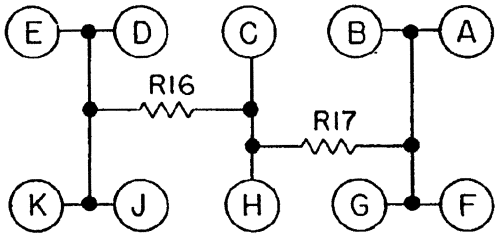
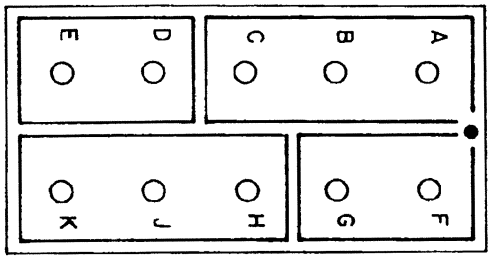


SCHEMATIC DIAGRAM

FIGURE 13 -013



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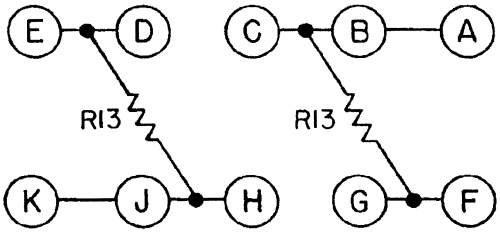
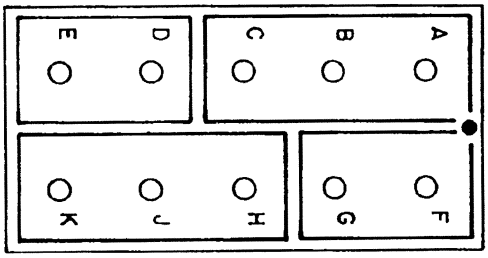


SCHEMATIC DIAGRAM

FIGURE 14 -014



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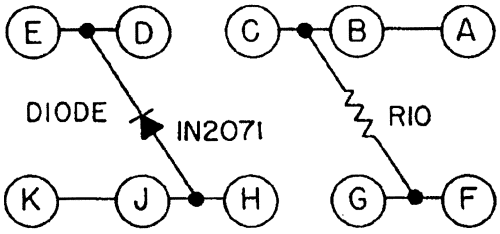
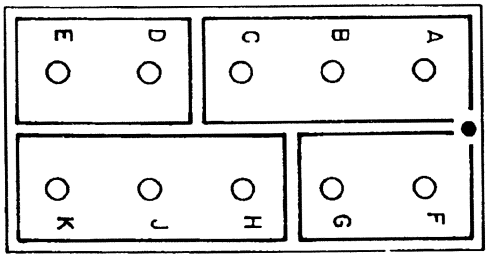


SCHEMATIC DIAGRAM

FIGURE 15 -015



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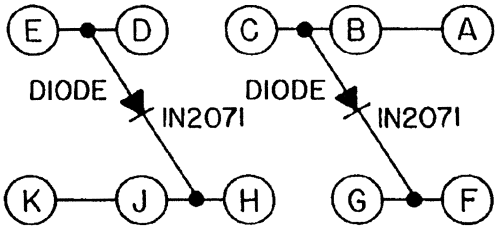
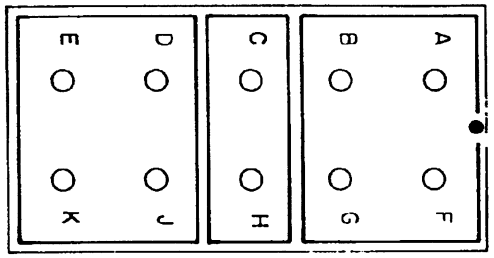


SCHEMATIC DIAGRAM

FIGURE 16 -016



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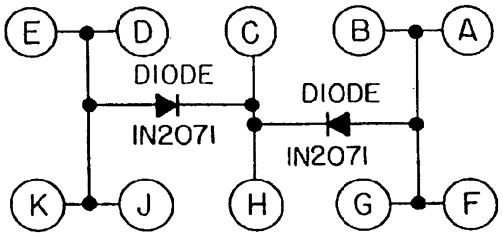
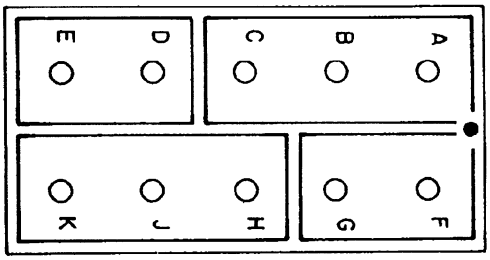


SCHEMATIC DIAGRAM

FIGURE 17 -017



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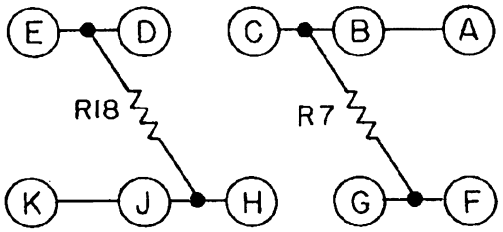
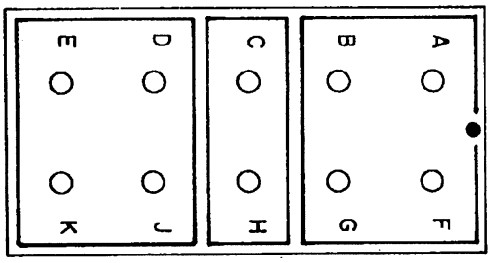


SCHEMATIC DIAGRAM

FIGURE 18 -018



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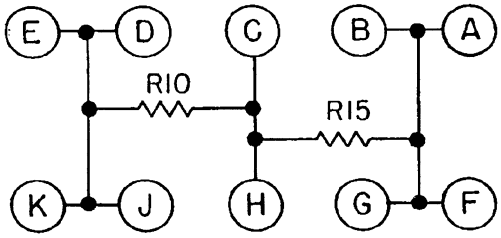
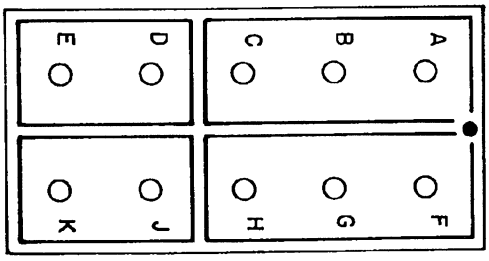


SCHEMATIC DIAGRAM

FIGURE 19 -019



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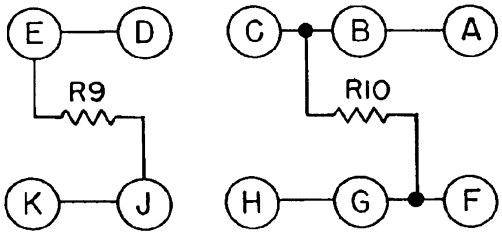
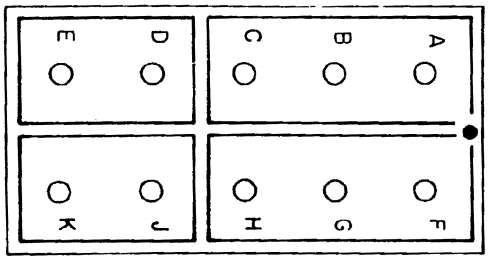
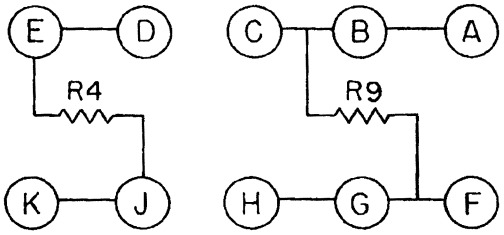


SCHEMATIC DIAGRAM

FIGURE 20 -020

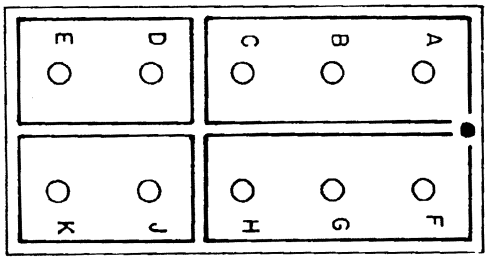


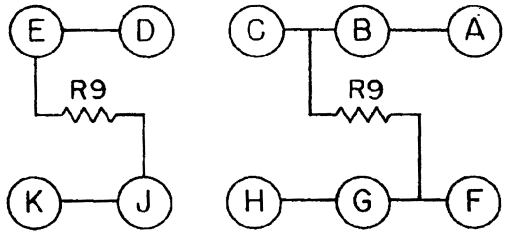


TOP MARKING

SCHEMATIC DIAGRAM

FIGURE 21 -021

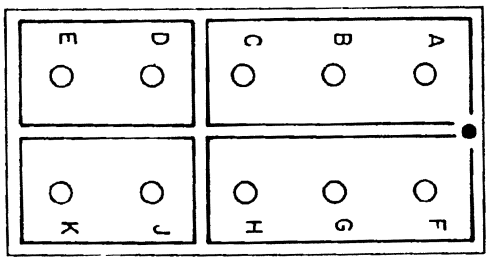


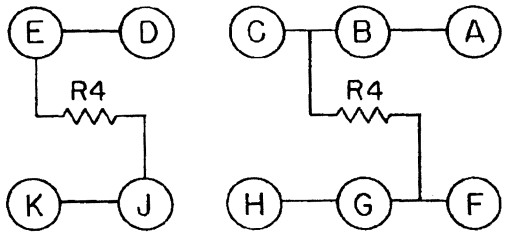


TOP MARKING

SCHEMATIC DIAGRAM

FIGURE 22 -022





TOP MARKING

SCHEMATIC DIAGRAM

FIGURE 23 -023

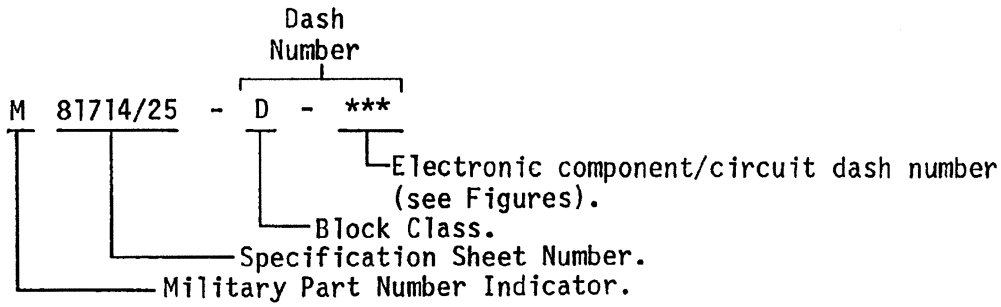
REQUIREMENTS:

1. MATERIALS:

   a. CURRENT CARRYING MEMBERS OF THE ELECTRONIC IN-LINE JUNCTION SHALL BE IN ACCORDANCE WITH THE IN-LINE JUNCTION SPECIFICATION.

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. MIL-T-81714 REQUIREMENTS APPLY TO BASIC BLOCK ONLY. FOR RATING AND CHARACTERISTICS OF ELECTRONIC IN-LINE JUNCTION(S), CONSULT COMPONENT SPECIFICATION.
3. THIS BLOCK IS DESIGNED FOR INSTALLATION IN MIL-T-81714/5 AND MIL-T-81714/16 RACKS WITH ITS INDEXING INDICATOR ADJACENT TO THE INDEXING RACK RAIL. THIS BLOCK CAN ALSO BE INSTALLED IN MIL-T-81714/29 BRACKETS.
4. TOOLS FOR CONTACT INSERTING/REMOVAL ARE M81969/8-06 OR M81969/14-02 AND SHALL BE ORDERED SEPARATELY.
5. METRIC EQUIVALENTS (TO THE NEAREST .01 MM) ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
6. INTERNATIONAL INTEREST, SEE SPECIFICATION MIL-T-81714.
7. THE PART NUMBER CONSISTS OF THE LETTER M, SPECIFICATION SHEET NUMBER, BLOCK CLASS AND ELECTRONIC COMPONENT/CIRCUIT DASH NUMBER (SEE FIGURES).



PART NUMBER EXAMPLE:

M81714/25-D-001

FEEDBACK TYPE ELECTRONIC BLOCK, CLASS D SIZE 20-1, WITH -001 CIRCUIT.

8. CLASSES A, B AND C COMPONENTS ARE INACTIVE FOR NEW DESIGN. ONLY CLASS D COMPONENTS SHALL BE USED FOR DIRECT GOVERNMENT ACQUISITION.